

ABSTRACT OF THE DISCLOSURE

A method for injection molding a layer of phase change material around a surface of a plurality of identical motor components or hard disc drive components which includes providing a plurality of motor components or hard disc drive components; placing a motor component or hard disc drive component in a mold cavity of an injection molding machine having a controllable fill rate and a controllable injection pressure; closing said mold cavity; injecting a molten phase change material into said mold cavity at a fill rate and injection pressure; monitoring pressure in the mold cavity; controlling the fill rate of molten phase change material to obtain said motor component or hard disc drive component with the phase change material thereon, having a reproducible resonance spectrum; and repeating the above steps to produce a plurality of motor components or hard disc drive components each having a substantially uniform resonance spectrum.